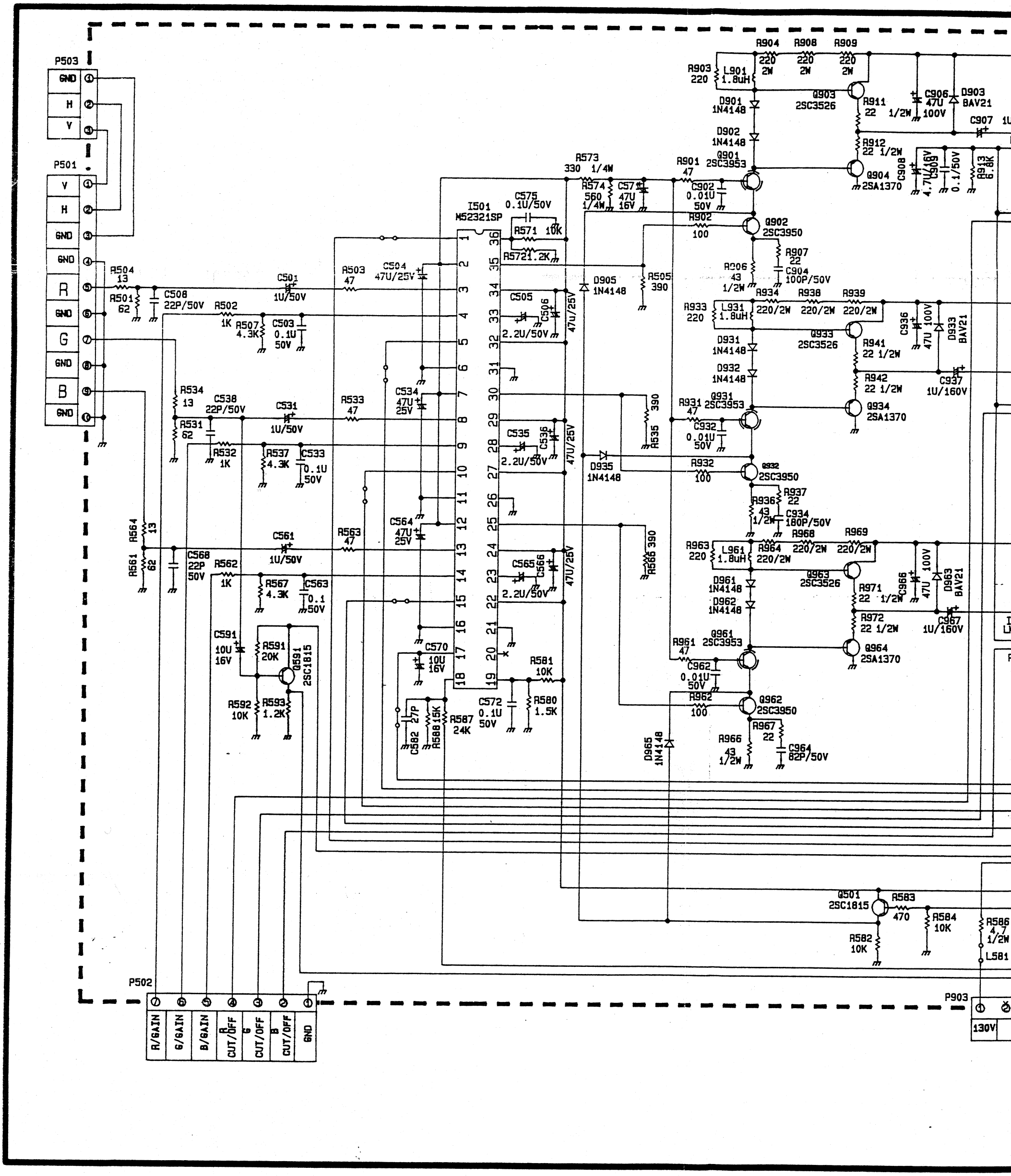
Belinea 10 55 40

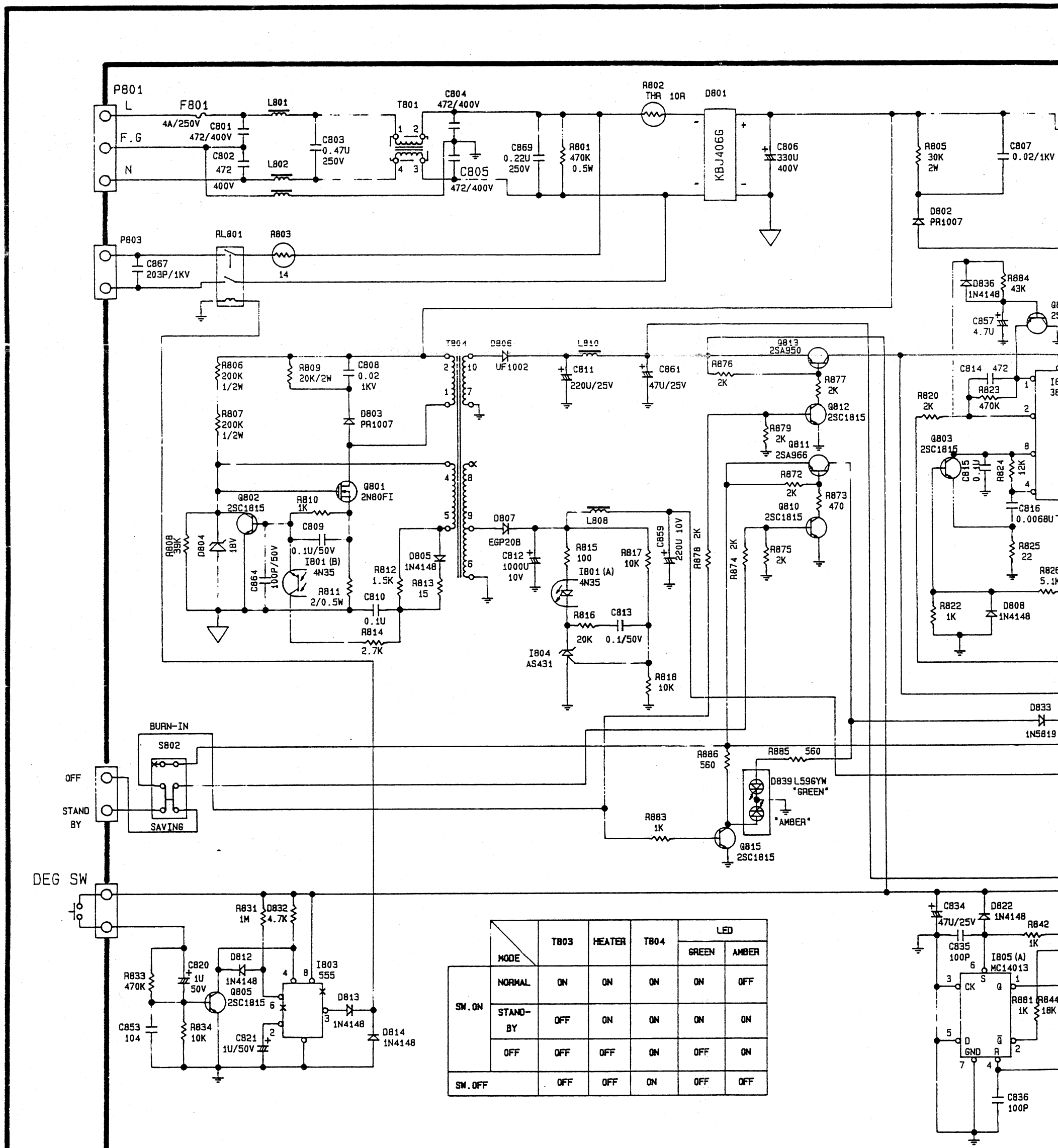
Color Monitor
Service Manual


P503
GND
H
V
P501
V
H
GND
GND
R
GND
G
GND
B
GND
R504 13
R501 62
C508 22P/50V
C501 1U/50V
R502 1K
R507 4.3K
C503 0.1U 50V
R503 47
C504 47U/25V
R534 13
C538 22P/50V
C531 1U/50V
R533 47
R531 62
R532 1K
R537 4.3K
C533 0.1U 50V
C534 47U 25V
R564 13
R561 62
C568 22P 50V
C561 1U/50V
R563 47
R562 1K
R567 4.3K
C563 0.1 50V
C564 47U 25V
C591 10U 16V
R591 20K
Q591 2SC1815
R592 10K
R593 1.2K
C570 10U 16V
C582 27P
R588 15K
R587 24K
C572 0.1U 50V
R580 1.5K
R581 10K
I501 M52321SP
C575 0.1U/50V
R571 10K
R5721.2K
C571 47U 16V
R573 330 1/4W
R574 560 1/4W
C505
2.2U/50V
C506 47u/25V
C535
2.2U/50V
C536 47U/25V
C565
2.2U/50V
C566 47U/25V
D905 1N4148
R505 390
R535 390
D935 1N4148
R566 390
D965 1N4148
R904 220 2W
R908 220 2W
R909 220 2W
R903 220
L901 1.8uH
D901 1N4148
D902 1N4148
Q903 2SC3526
R911 22 1/2W
C906 47U 100V
D903 BAV21
C907 1U
R912 22 1/2W
R901 47
Q901 2SC3953
C902 0.01U 50V
Q904 2SA1370
C908 4.7U/16V
C909 0.1/50V
R913 6.8K
R902 100
Q902 2SC3950
R906 43 1/2W
R907 22
C904 100P/50V
R933 220
L931 1.8uH
R934 220/2W
R938 220/2W
R939 220/2W
D931 1N4148
D932 1N4148
Q933 2SC3526
R941 22 1/2W
C936 47U 100V
D933 BAV21
R942 22 1/2W
C937 1U/160V
R931 47
Q931 2SC3953
C932 0.01U 50V
Q934 2SA1370
R932 100
Q932 2SC3950
R936 43 1/2W
R937 22
C934 180P/50V
R963 220
L961 1.8uH
R964 220/2W
R968 220/2W
R969 220/2W
D961 1N4148
D962 1N4148
Q963 2SC3526
R971 22 1/2W
C966 47U 100V
D963 BAV21
R972 22 1/2W
C967 1U/160V
R961 47
Q961 2SC3953
C962 0.01U 50V
Q964 2SA1370
R962 100
Q962 2SC3950
R966 43 1/2W
R967 22
C964 82P/50V
Q501 2SC1815
R583 470
R584 10K
R582 10K
R586 4.7 1/2W
L581
P502
R/GAIN
G/GAIN
B/GAIN
R CUT/OFF
G CUT/OFF
B CUT/OFF
GND
P903
130V

REVISION HISTORY

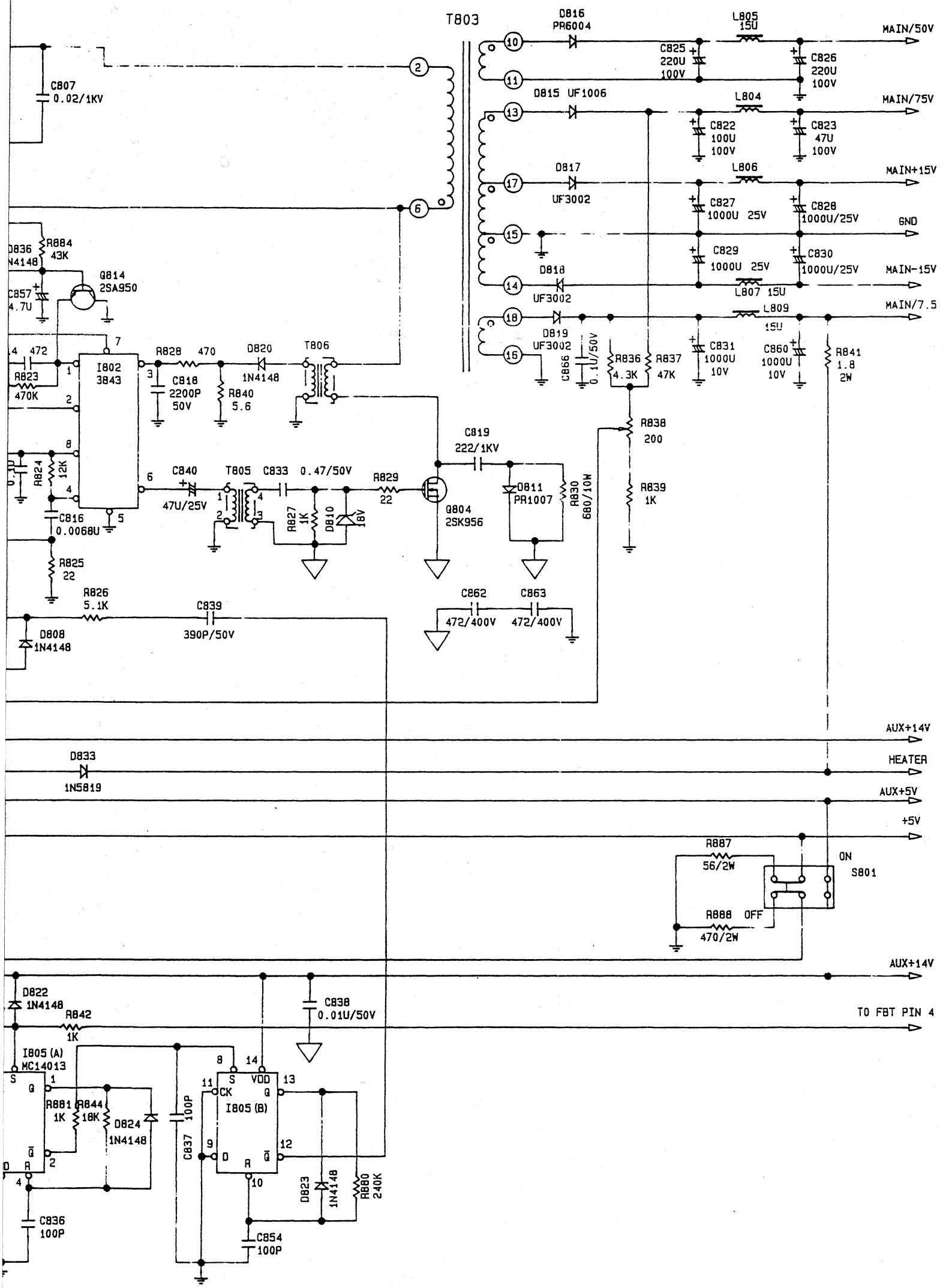
C906 47U 100V
D903 BAV21
C907 1U/160V
R914 11K
R916 30K
D904 BAV21
Q905 MPSA42
C909 4.7U/16V
C908 0.1/50V
R913 6.8K
I901 (A) LM324
R915 33K
R917 4.7K
R918 200K
R919 12K
C910 10U 160V
R920 100K
R921 100 1/2W
C912 0.1U/50V
V901 M41KXH100X03
R A
G G
H H
B B
GND GND
G1 G1
G2 G2
Z901
Z931
Z961
EHT
P902
FOCUS2
FOCUS1
G2
C981 4700P 2KV
C982 820P 500V
R982 150 1/2W C.C
C983 270P 500V
Z905
Z906
R983 330K 1/2W C.C
D933 BAV21 47U 100V
C937 1U/160V
R950 100K
R951 100 1/2W
I901 (B) LM324
Q955 MPSA42
R946 30K
D934 BAV21
R945 33K
R947 4.7K
R948 200K
R949 12K
C940 10U 160V
D963 BAV21 47U 100V
C967 1U/160V
R980 100K
R981 100 1/2W
I901 (C) LM324
Q965 MPSA42
R976 30K
D964 BAV21
R975 33K
R977 4.7K
R978 200K
R979 12K
C970 10U 160V
C971 0.1/250V MEF
I201 MC141540
R204 5.6K
R205 1M
C203 0.01U 50V
R206 10K
R207 5.6K
C204 0.01U 50V
R208 1K
Q202 2SC456
C202 100U/16V
Q201 2SC458
R201 1K
R203 4.7K
R202 4.7K
C201 100U/16V
R209 56K
R210 10K
L201 15uH
P201
GND
5V
SS
SDA
SCL
VF
C/P
SYNC/G
C984 0.1U 50V
C985 100U 25V
L983 150uH
L981 1800uH
R986 4.7 1/2W
R584 10K
R586 4.7 1/2W
L581
R585 20K
C573 0.1UF 250V
C574 10U 160V
P903
130V GND H/P CON
P904
G1
P901
7V 12V 78V GND

DRAWN: K.I HUANG	DATE: 06/14/94	105540
CHK:	DATE:	TITLE: VIDEO BOARD
APPRO:	DATE:	
DESIGN:	DATE:	DWG NO.: 8912040000 / REV: F
CHK: Tom Hung	DATE: 6/14/94	PWB NO.: 6831120400 / SHEET: 1 OF 1
APPRO: Tommy Chen	DATE: 6/14/94	

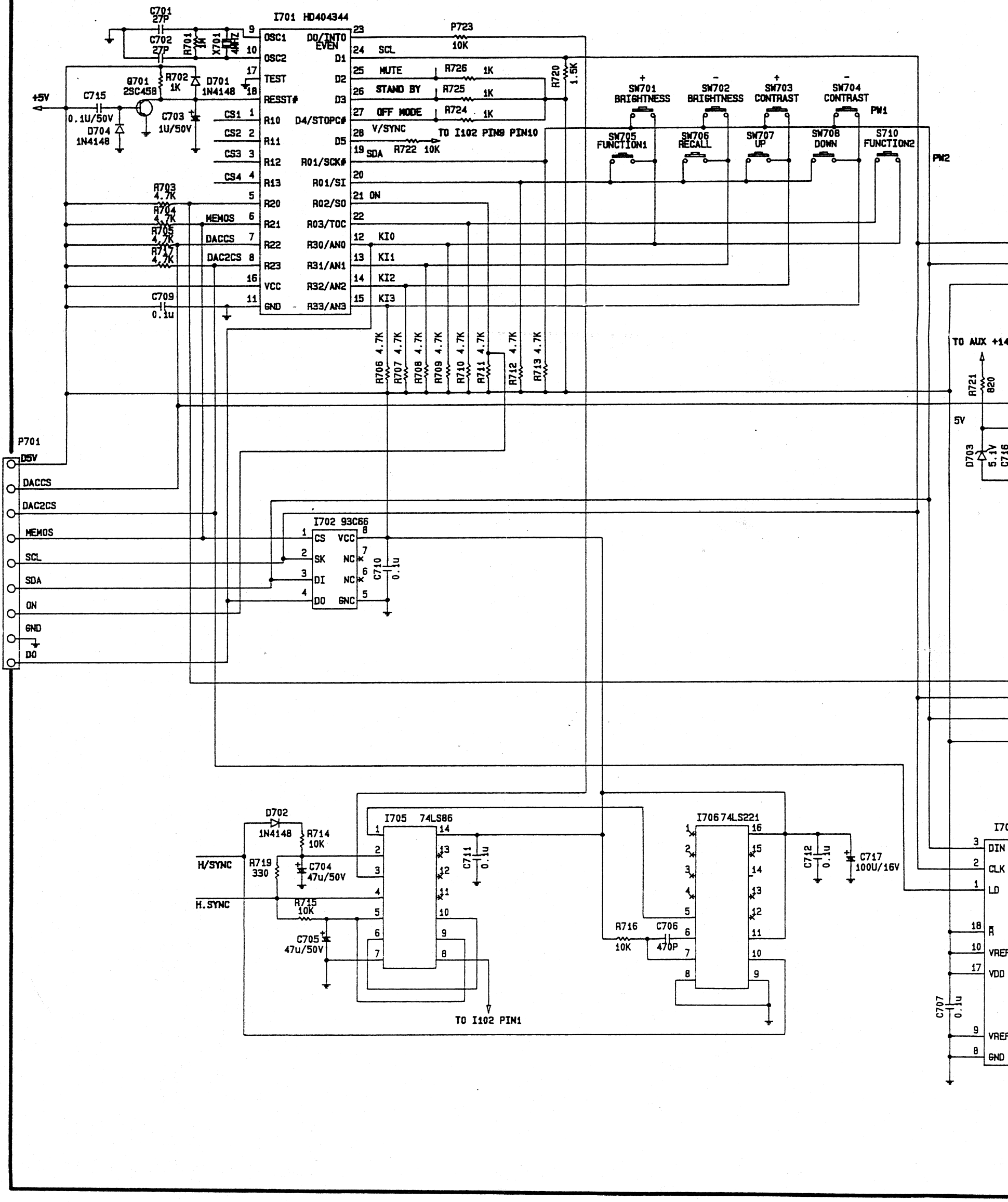


MODE	T803	HEATER	T804	LED	
				GREEN	AMBER
SW.ON NORMAL	ON	ON	ON	ON	OFF
SW.ON STAND-BY	OFF	ON	ON	ON	ON
SW.ON OFF	OFF	OFF	ON	OFF	ON
SW.OFF	OFF	OFF	ON	OFF	OFF

REVISION HISTORY



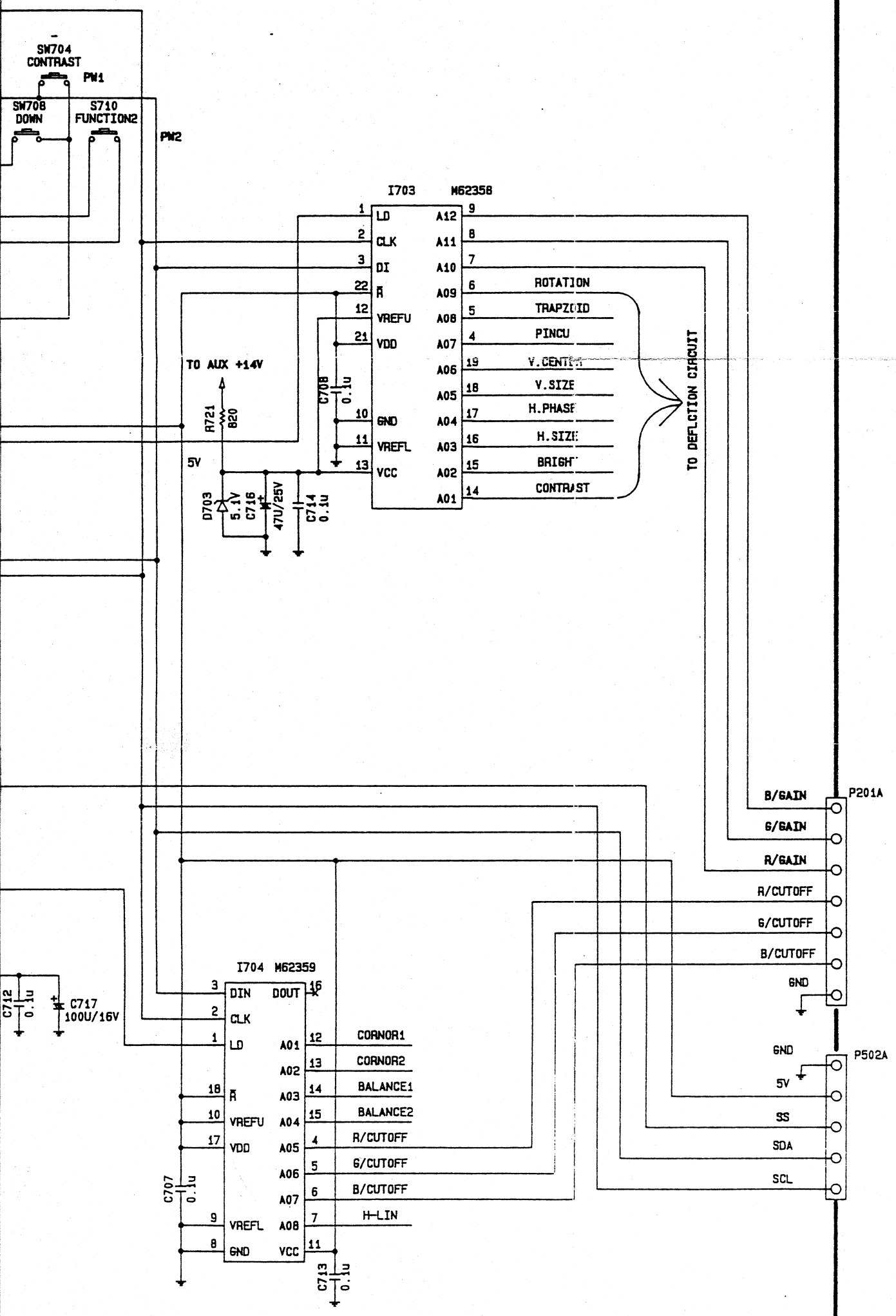
DRAWN: K.I HUANG	DATE: 03/31/94	105540	
CHK: J. Chang	DATE: 3/9 '94	TITLE:	
APPRO: J. Chang	DATE: 4/9 '94		
DESIGN: Shipei Li	DATE: 3/31/94		
CHK:	DATE:	DWG NO.: 8912050000	REV: D
APPRO: Jammy Chen	DATE: 4/9/94	PWB NO.: 8931120500	SHEET 2 OF 3


I701 HD404344
C701 27P
C702 27P
R701 1M
X701 4MHZ
OSC1
OSC2
TEST
RESST#
R10
R11
R12
R13
R20
R21
R22
R23
VCC
GND
DO/INTO EVEN
D1
D2
D3
D4/STOPC#
D5
R01/SCK#
R01/SI
R02/SO
R03/TOC
R30/AN0
R31/AN1
R32/AN2
R33/AN3
CS1
CS2
CS3
CS4
MEMOS
DACCS
DAC2CS
+5V
C715 0.1U/50V
D704 1N4148
Q701 2SC458
R702 1K
D701 1N4148
C703 1U/50V
R703 4.7K
R704 4.7K
R705 4.7K
R717 4.7K
C709 0.1u
P723 10K
SCL
MUTE
STAND BY
OFF MODE
V/SYNC
SDA
ON
R726 1K
R725 1K
R724 1K
R722 10K
R720 1.5K
TO I102 PIN9 PIN10
SW701 BRIGHTNESS +
SW702 BRIGHTNESS -
SW703 CONTRAST +
SW704 CONTRAST -
SW705 FUNCTION1
SW706 RECALL
SW707 UP
SW708 DOWN
S710 FUNCTION2
PW1
PW2
R706 4.7K
R707 4.7K
R708 4.7K
R709 4.7K
R710 4.7K
R711 4.7K
R712 4.7K
R713 4.7K
TO AUX +14
R721 820
5V
D703 5.1V
C716
P701
D5V
DACCS
DAC2CS
MEMOS
SCL
SDA
ON
GND
DO
I702 93C66
CS
SK
DI
DO
VCC
NC
NC
GNC
C710 0.1u
D702 1N4148
R714 10K
H/SYNC
R719 330
C704 47u/50V
H.SYNC
R715 10K
C705 47u/50V
I705 74LS86
C711 0.1u
I706 74LS221
R716 10K
C706 470P
C712 0.1u
C717 100U/16V
C707 0.1u
DIN
CLK
LD
VREF
VDD
VREF
GND
TO I102 PIN1

REVISION HISTORY

REV.:

DTAE :



DRAWN : K.I HUANG	DATE : 06/03/94	105540	
CHECK : J. Chang	DATE : 6/3 '94	TITLE : MICRO BD	
APPRO : J. Chang	DATE : 6/3 '94		
DESING : ROBERT CHEN	DATE : 6/3/94	DWG. NO : 8912050000	A2
CHECK :	DATE :	PCB. NO : 6831120500	REV: D
APPRO : Jimmy Chen	DATE : 6/3 '94		SHEET : 3 OF 3

18V/AUX
7.8V
5V
7V
15V
50V
13V/AUX
-15V

R101 56 1/4W
D101 12V
C110 100u/16V
C111 0.1u/50V
R121 1K
R122 10K
Q101 C1815
R120 1K
R119 2.2K
C108 3300P 100V PPN
R118 1K
R116 10K
Q102 C1815
R115 2.2K
R114 1K
R111 1K
R112 10K
R113 1.2K
R110 4.7K
Q103 A1015
R123 4.7K
Q104 C1815
R102 100K
C101 0.22u MEM
C102 0.22u MEM
C103 4.7u/16V
R103 2.2K
C104 0.1u
R104 33K
C105 0.22u
C106 0.47u/50V
C109 3.3u/50V
R134 10K
R106 33K
C107 560
R105 270
L101
S/C
CLAMP
HF
VF
TO I706 P3N13
V.SYNC
H.SYNC
I101 CXA1616S
VS/IN VCC
PVC VD
EVC V/IN
CS/IN V/OUT
PHC HD
EHC PV
VIDEO/IN PH
HD/SEL EV
TIMING EH
CLAMP IN/EXT
GND V/REF
R147 3.3K
R117 2.2K
R107 2.2K
R108 10K
R109 1.5K
I102 TC4066
C112 47u/25V
TO R719
H/SYNC
V/SYNC
R135 2.2K
401 2K

D825 1N4002
I807 7812
R846 0.47/2W MOF
C840 220u/25V
C841 104
C842 220/16V

R476 47
C437 470P/50V
R478 8.2K
R477 100K
I404/B KF347
D418 1N4148
R479 47
C438 10u/25V
R481

Q806 C1815
R849 10K
R850 56K
Q807 C1959
C846 4.7u/50V
R858 22K
R851 3.3K
D830 1N4148
C852 47U/25V
R882 470/2W
C855 2200P/1KV
D826 1N4148
R847 2.2K
D827 1N4148
R848 10K
C843 1u/50V
C844 470P/50V
R805 360K
R853 27K
B+ ADJ
R871 30K
C850 330P 50V
R857 1M
R859 33
I806 NC3843
R860 10K
R856 18.2K 1%
R854 560
D829 1N4148
D837 6.2V 0.5W
C845 0.0068 50V/PPN
R855 270
C847 0.1/50V MEM
C849 47P

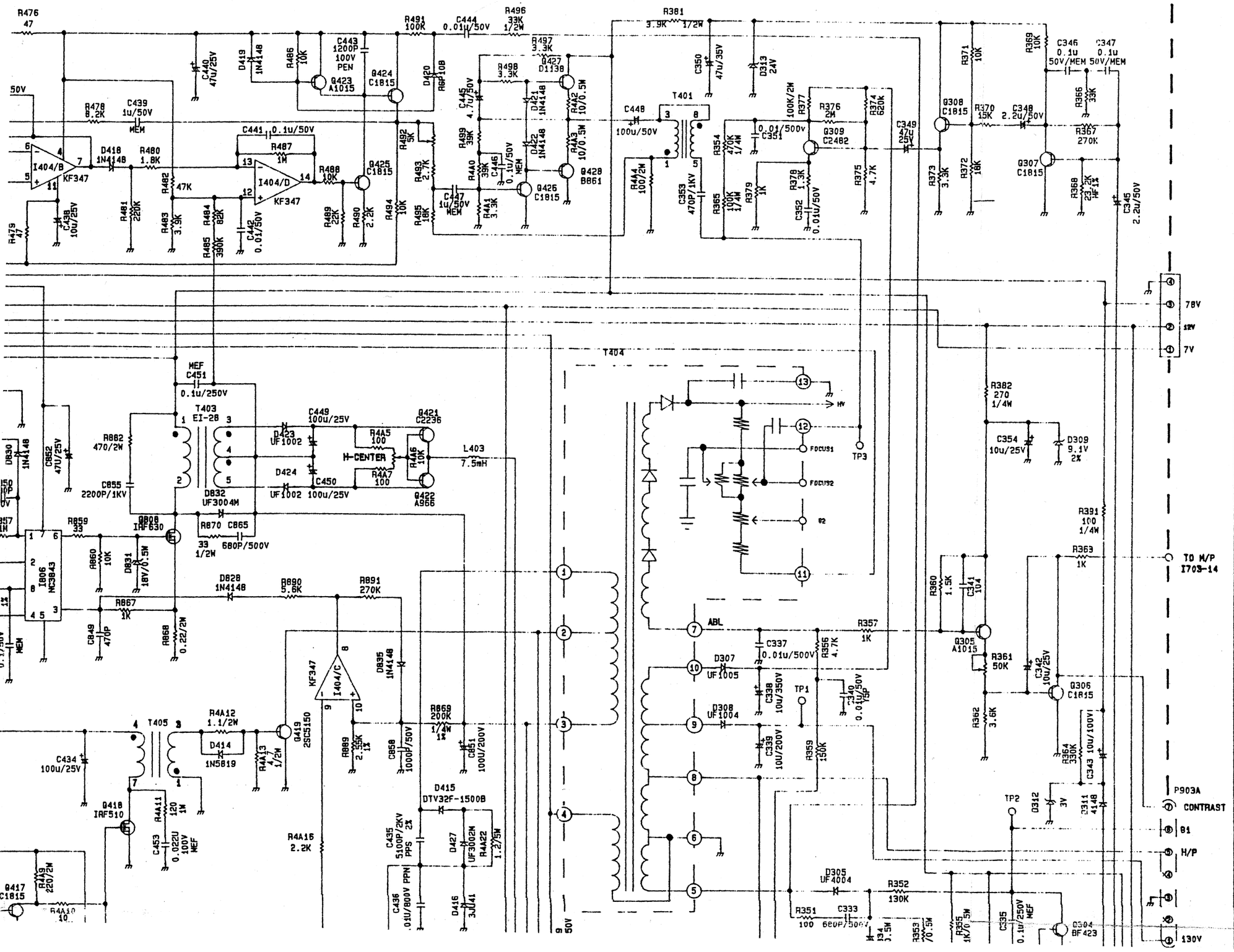
C434 100u/25V
Q418 IRF510

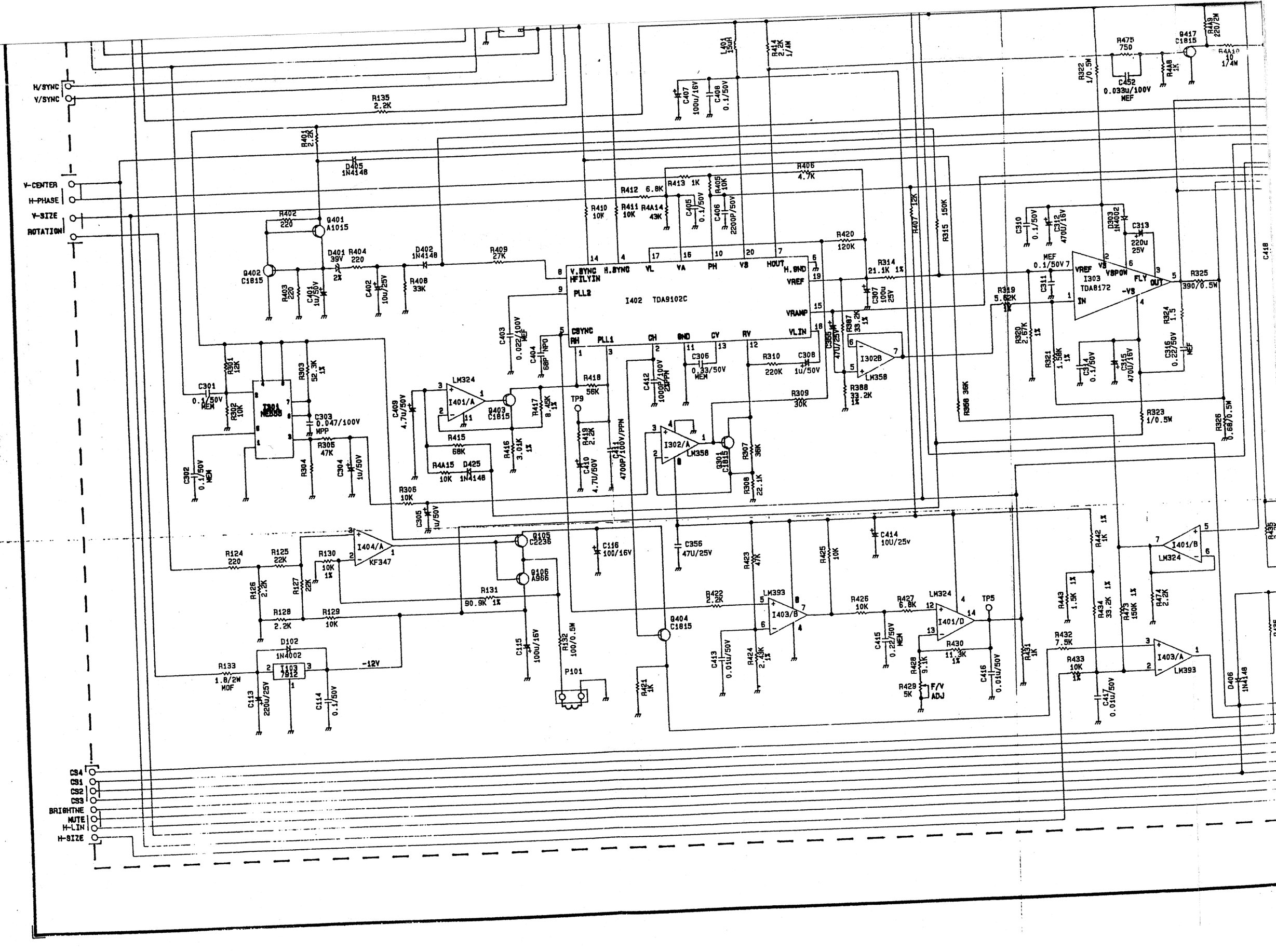
L401 15uH
R414 2.2K 1/4W
C407 100u/16V
C408 0.1/50V
R475 750
Q417 C1815
R449 220/2W
R4A10 10 1/4W
R322 1/0.5W
C452 0.033u/100V MEF
R4A8 1K

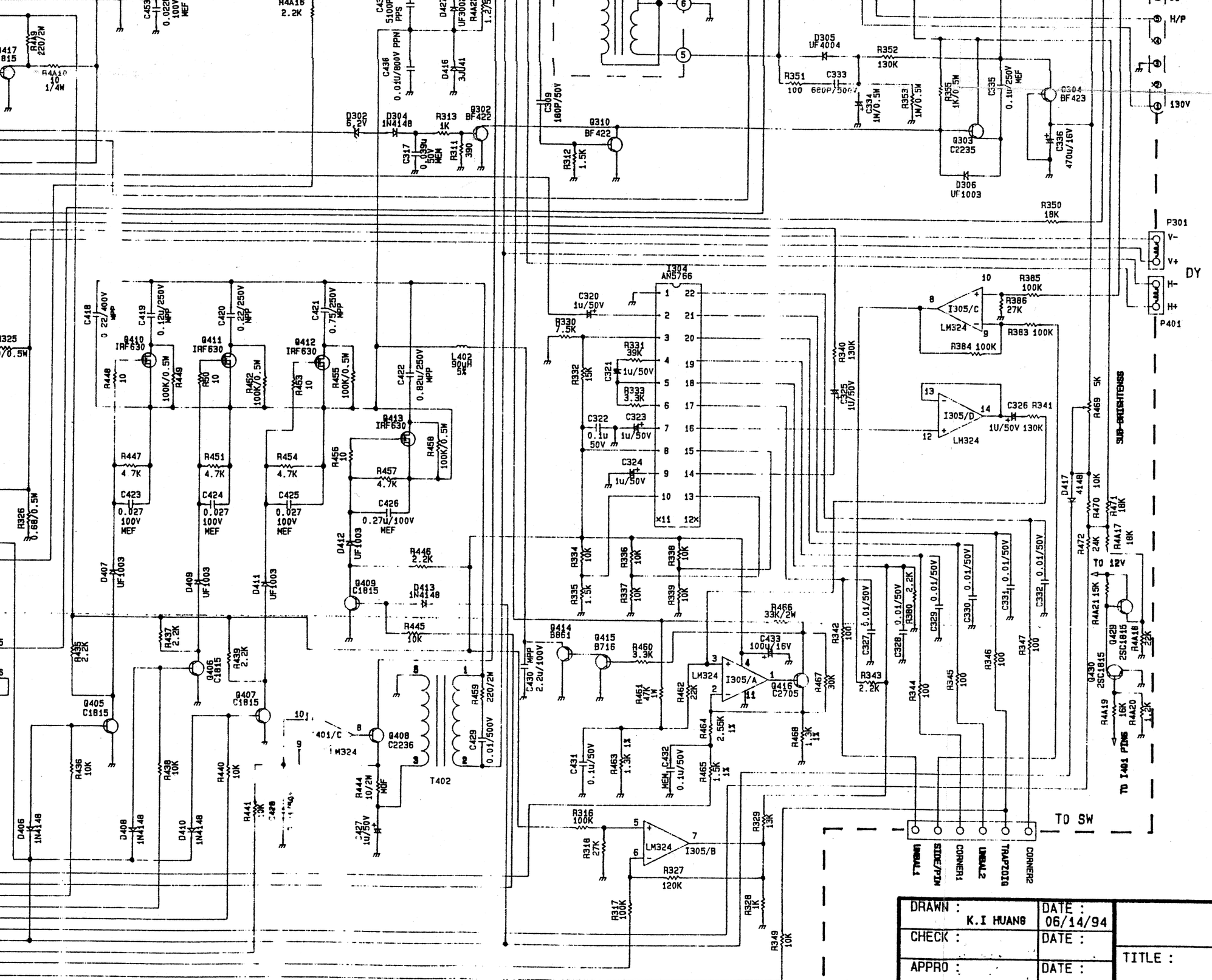
REVISION HISTORY

REV.:

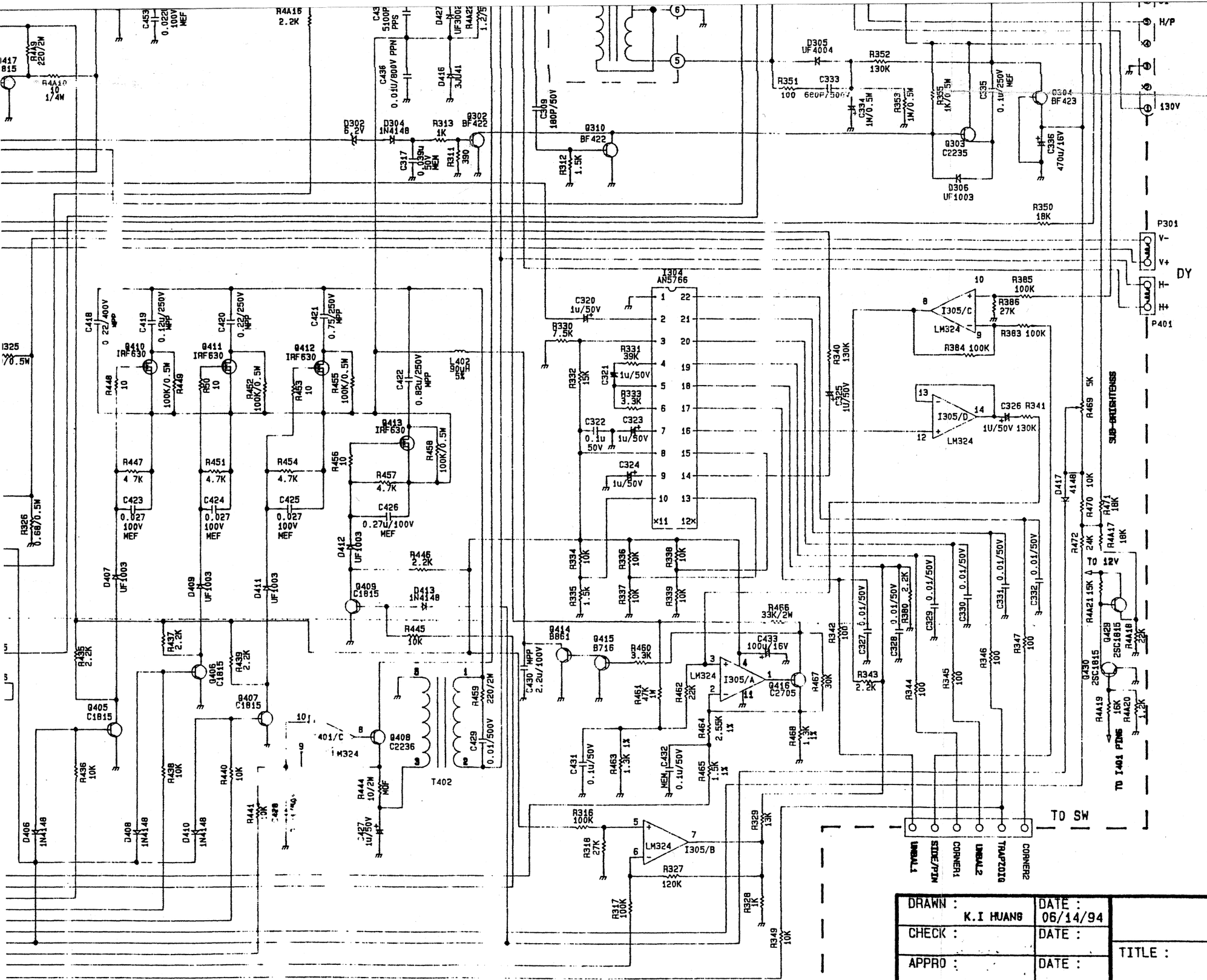
DTAE :




H/SYNC
V/SYNC
V-CENTER
H-PHASE
V-SIZE
ROTATION
CS4
CS1
CS2
CS3
BRIGHTNE
MUTE
H-LIN
H-SIZE
R135 2.2K
R401 2.2K
D405 1N4148
R402 220
Q401 A1015
D401 39V 2%
R404 220
D402 1N4148
R409 27K
Q402 C1815
R403 220
C401 1u/50V
C402 10u/25V
R408 33K
R410 10K
R411 10K
R412 6.8K
R413 1K
R4A14 43K
R405 10K
C405 0.1/50V
C406 2200P/50V
L401 15UH
R414 2.2K 1/4W
C407 100u/16V
C408 0.1/50V
R406 4.7K
R420 120K
R407 12K
R315 150K
R314 21.1K 1%
C307 100u 25V
R367 33.2K 1%
R388 33.2K
R309 30K
R310 220K
C308 1u/50V
I302B LM358
C355 470U/25V
R356 36K
R475 750
C452 0.033u/100V MEF
Q417 C1815
R4A9 220/2W
R4A10 10 1/4W
R322 1/0.5W
R4A8 1K
C310 0.1/50V
C312 470U/16V
D303 1N4002
C313 220u 25V
I303 TDA8172
R319 5.62K
C311 MEF 0.1/50V
R320 2.67K 1%
R321 1.58K 1%
C314 0.1/50V
C315 470U/16V
C316 0.22/50V MEF
R324 1.5
R325 390/0.5W
R323 1/0.5W
R326 0.68/0.5W
C418
I402 TDA9102C
V.SYNC H.SYNC VL VA PH VS HOUT H.GND VREF VRAMP VLIN
HFILYIN PLL2 CSYNC RH PLL1 GH GND CV RV
C403 0.022/100V MEF
C404 68P NPO
R418 56K
TP9
C412 1000P/100V 2%PPM
C306 0.33/50V MEF
R417 8.45K 1%
R419 2.2K
C410 4.7U/50V
C411 4700P/100V/PPM
C409 4.7u/50V
I401/A LM324
Q403 C1815
R415 68K
R4A15 10K
D425 1N4148
R416 3.01K 1%
R306 10K
C305 1u/50V
I302/A LM358
Q301 C1815
R307 36K
R308 22.1K
C301 0.1/50V MEF
R301 12K
R303 52.3K 1%
R302 10K
I304 NE555
C303 0.047/100V MPP
R305 47K
R304
C304 1u/50V
C302 0.1/50V MEF
R124 220
R125 22K
R130 10K 1%
I404/A KF347
Q105 C2236
Q406 A966
R131 90.9K 1%
R126 2.2K
R127 22K
R128 2.2K
R129 10K
D102 1N4002
R133 1.8/2W MOF
I103 7812
-12V
C113 220u/25V
C114 0.1/50V
R132 100/0.5W
C115 100u/16V
P101
C116 100/16V
C356 47U/25V
R423 47K
R425 10K
C414 10U/25v
R422 2.2K
LM393 I403/B
C413 0.01u/50V
R424 2.43K 1%
R421 1K
Q404 C1815
R426 10K
R427 6.8K
LM324 I401/D
TP5
C415 0.22/50V MEF
R428 9.1K
R430 11.3K 1%
R429 5K F/V ADJ
C416 0.01u/50V
R431 1K
R442 1K 1%
R443 1.5K 1%
R434 33.2K 1%
R473 150K 1%
R474 2.2K
R432 7.5K
R433 10K 1%
C417 0.01u/50V
I401/B LM324
I403/A LM393
R435 2.2K
D406 1N4148
R436



DRAWN : K.I HUANG	DATE : 06/14/94	105540	
CHECK :	DATE :	TITLE :	
APPRO :	DATE :		
DESING : Tom Huang	DATE : 6/14/94	DWG. NO : 8912050000	A1
CHECK :	DATE :	PCB. NO : 6831120500	REVSION : E
APPRO : Jammy Chen	DATE : 6/14 94		SHEET :



DRAWN : K.I HUANG	DATE : 06/14/94	105540	
CHECK :	DATE :	TITLE :	
APPRO :	DATE :		
DESING : Tom Huang	DATE : 6/14/94	DWG. NO : 8912050000	A1
CHECK :	DATE :	PCB. NO : 6831120500	REVSION : E
APPRO : Jammy Chen	DATE : 6/14 94		SHEET :